

Effect of Different Catalysts on the Process of  
Paraffin Oxidation, by Gu Boe,

RUSSIAN, per, Khim i Tekhnol. Topliva i Masel, Vol. IV,  
No 10, 1959, pp 10-16.

ATS RJ-2089

Sci - Chem

May 60

115,386

Karapetyants, M. H. and Chen, Huang Yu.  
THE TEMPERATURE DEPENDENCE OF THE SATU-  
RATED VAPOR PRESSURE OF n-ALKYL CYCLO-  
HEXANE. [1961] [6p. 16 refs.  
Order from OTS or SLA \$1.10

61-27987

Trans. of Khim[ya] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1959, v. 4, no. 10, p. 28-31.

DESCRIPTORS: \*Cyclohexanes, Vapor pressure,  
Temperature, Alkyl radicals.

Earlier statements and applications of the combined  
calculation method were used for the calculations of the  
temperature-dependence of the saturation pressure of  
n-alkylcyclohexanes. Coefficients were derived which  
were used to establish the temperature-dependence for  
various n-alkylcyclohexanes: for a number of these  
substances there is no previous data reported in the  
literature. (Author)

61-27987

I. Karapetyants, M. H.  
II. Chen, Huang Yu.  
III. Translations, New York

197376

(Chemistry--Organic,  
TT, v. 6, no. 10)

Office of Technical Services

X  
The Preparation of p-Xylene From  
Diisobutylene, by V. I. Karzhev,  
A. M. Lebedeva, 4 pp.

RUSSIAN, per, Khim i Tekhnol Toplivo i Masel  
Vol IV, No 10, 1959, pp 31-34.

ATS-21M40R

ATS-RJ-2395

186,302

Mar 62

The Lacquer Forming Tendencies of Diesel Fuels,  
Kerosines and Gasolines, by K. K. Papok, K. I.  
Bessmertniy.

RUSSIAN, per, Khim i Tekh Topliva i Masel, No 10,  
1959, p 34.

NLL M. 2657

Sci - Fuels, Chem

Nov 61

174,427

R-2608

(DC-3205).

Certain Problems of Constructing Petroleum  
Refineries in the USSR, by S. K. Lalabekov, 6 pp.

RUSSIAN, par. Khim Tekh Topliv i Masel, No 10,  
1959, pp 62-64.

JPRS-L-2025-D

USSR

Sci - Chemistry  
Feb 60

AF 1419439 107887

High-Grade Fuels and Oils; Results of New  
Technology, 3 pp.

RUSSIAN, por, Khim i Tekh Topliv i Masel,  
Vol IV, No 11, 1959, pp 1-3.

ATS-46M38R

Sci  
Feb 62  
Vol III, No 11

182,812

Variation in the Electrical Resistance of Coals  
During Heating, by A. A. Agroskin.

RUSSIAN, per, Khim i Tekh Topliv i Masel, 1959,  
pp 7-13.

CRL/T.836

Sci  
Dec 62

The Effect of Some Lubricating-Oil Additives on  
Pitting, by M. D. Bezborod'ko, G. S. Krivosheina.

RUSSIAN, per, Khim i Tekh, Topliva i Masel, No 11,  
1959, pp 13-17.

OSIR LRU M.1566  
(loan)

Sci - Engr

122,564

Aug 60

CIA FOD XX 10/0

2518 D. G. R.

Dispersion of Insoluble Sediment Which Forms  
in Jet Fuels Upon Heating, by Ya. B. Chertkov,  
V. M. Shchagin, 10 pp. UNCL

RUSSIAN, per, Khim i Tekh Toplivo i Masel,  
No 11, 1959, pp 23-28.

AF 1419447

Sci - Fuels

Mar 60

*17760*

*111,925*

Zabryanskly, Ye. I. and Robert, A.  
EVALUATION OF THE DETONATION STABILITY OF  
GASOLINES AND OF COMPONENTS WITH OCTANE  
NUMBERS ABOVE 100. [1960] 4p. 7 refs.  
Order from LC to SLA m\$1.80, ph\$1.80 60-16899

Trans. of Khimiya i Tekhnologiya Topliv i Masel (USSR)  
1959 [v. 4] no. 11, p. 36-38.

The method for determination of octane numbers above  
100 was checked. Results of convergence at determina-  
tion of above 100 octane numbers were in the precision  
limits prescribed by GOST for the determination of  
octane numbers below 100. (Author)

(Materials--Fuels, TT, v. 5, no. 3)

60-16899

1. Octane--Stability
2. Gasoline--Stability
- I. Zabryanskly, Ye. I.
- II. Robert, A.

142,906

Office of Technical Services

Changes of the Method for Sulfur Determination  
in Clear Petroleum Products, by  
M. I. Vasil'yeva, N. A. Vorob'yev, P. G. Ivanov,  
4 pp.

RUSSIAN, per, Khim i Tekh Toplivo i Masla,  
Vol IV, No 11, 1959, pp 39-41.

SLA 60-16578

Sci

3 Mar 62

186, 179

Dynamics of Chemical Conversions in Flow  
Reactors With Internal Mixing, by  
A. P. Zinov'yeva, D. I. Orochko, 10 pp.

RUSSIAN, per, Khim i Tekh ~~Sp~~ Toplivo i Masel,  
Vol IV, No 11, 1959, pp 41-48.

SLA 60-18067

Sci  
Vol IV, No 9  
Mar 62

187, 817

Karpov, N. P.  
IMPROVEMENT IN THE TECHNOLOGY OF  
TSIATIM-339 ADDITIVE PRODUCTION (Usovershen-  
stvovaniye Tekhnologii Izgotovleniya Prisdki Tsyatim-  
339). [1961][4]p. [DSIR LLU] M. 2990.  
Order from OIS or SLA \$1.10

61-23234

Trans. of Khim[ia] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1959 [v. 4] no. 12, p. 1-2.

DESCRIPTORS: Phenols, Separation, Catalysts, Alkyl  
radicals, \*Additives, Sodium compounds, Benzenes,  
Sulfonic acids, Production \*Phenyl radicals.

Investigations carried out under laboratory and indus-  
trial conditions have demonstrated the possibility of  
eliminating the discharge of phenol and benzene sul-  
phonic acid into industrial effluents. The additive  
Tsiatim-339 obtained is not inferior in quality to that  
obtained by the normal method. The sodium salt of  
benzene sulphonic acid may be used in chemical in-  
dustry undertakings. (Author)

61-23234

- I. Title: Tsiatim-339
- I. Karpov, N. P.
- II. DSIR LLU M. 2990

185179

Office of Technical Services  
(Engineering--Chemical, TT,  
v. 6, no. 8)

Shevchenko, T. I.  
CARBAMIDE DEPARAFFINATION OF DIESEL FUEL  
FROM BITKOV PARAFFIN-BASE PETROLEUM  
(Karbidnaya Deparaffinizatsiya Dizel'nogo Topлива iz  
Bitkovskoy Parafinistoy Nefti). [1961] [7] p. 4 refs.  
[ISIR L.L.U.] M. 2991 61-23235  
Order from OTS or SLA \$1.10

Trans. of Khim[ia] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1959 [v. 4] no. 12, p. 3-5.

DESCRIPTORS: \*Fuel oil, \*Petroleum, Methanols,  
Guanidines, Waxes.

The direct distilled fraction of diesel fuel from Bitkov  
paraffinic petroleum is effectively deparaffinated by  
crystalline carbamide. Optimum conditions for car-  
bamide deparaffination of this fraction are a carbamide  
factor of 70 percent on the feedstock; 5 percent metha-  
nol activator based on the feed; and contact time 30 min.  
With the aid of carbamide deparaffination the low-melt-  
(Materials: - Fuels, TT, v. 6, no. 4) (over)

61-23235

I. Shevchenko, T. I.  
II. ISIR L.L.U. M. 2991

17770

Office of Technical Services

Veselovskii, K. B., Gamburg, D. Yu., and  
Lelyakina, T. M.  
THE CHANGE IN THE SURFACE OF SOLID FUELS  
DURING THE GASIFICATION PROCESS (Izmeneniye  
Poverkhnosti Tverdykh Topliva v Protsesse ikh  
Gasifikatsii). [1961] 7p. 8 refs. [DSR LLU] M.2992.  
Order from DTS or SLA \$1.10 61-23236

Trans. of Khimicheskaya Tekhnologiya Topliva i Masel  
(USSR) 1959 [v. 4] no. 12, p. 5-9.  
Another translation is available from LC or SLA  
ml\$2.40, pl\$2.30 or 60-18324 [1960] [11]p.

DESCRIPTORS: \*Coke, Carbon dioxide, Decomposition,  
Surface area.

For abstract see Technical Translations 4 573, 1960.

(Materials--Fuels, TT, v. 6, no. 3)

61-23236

1. Title: Gasification  
I. Veselovskii, K. B.  
II. Gamburg, D. Yu.  
III. Lelyakina, T. M.  
IV. DSR LLU M.2992

541 60-18324  
175354

Office of Technical Services

Vishnevskii, N. E.  
 MINING APPARATUS FOR A REACTOR FOR THE  
 PRODUCTION OF ALKYL SULPHURIC ACIDS  
 (Peremeshchennyye Ustroystva Reaktora dlya  
 Polucheniya Alkil'sul'nykh Kislot). [1951] [10] p. 5 refs.  
 [DSIR LLU] M 2993.  
 Order from QTS or SIA \$1.10 61-23237

Trava. of Khim[ia] i Tekhnologiya Topliv i Masel  
 (USSR) 1959 [v. 4] no. 12, p. 9-13.

DESCRIPTORS: \*Sulfuric acid, Alkyl radicals,  
 Production, \*Screws, Design.

In operation under increased pressure and in a corro-  
 sive medium, when the use of a stuffing box becomes  
 difficult it is recommended that an electro-magnetic  
 drive should be used which makes possible complete  
 hermetic sealing of the apparatus at any rotational  
 velocity of the shaft. For a screw with diffuser the  
 velocity coefficient or provisionally hydraulic efficiency  
 (Engineering--Chemical, TT, v. 6, no. 3) (over)

61-23237

I. Vishnevskii, N. E.  
 II. DSIR LLU M. 2993

170350

Office of Technical Services

Zinov'yev, M. D.  
PRODUCTION OF SULFURIC ACID FROM PETRO-  
LEUM TREATMENT AND PETROCHEMICAL WASTES  
(Proizvodstvo Sernoy Kisloty Iz Otkhodov Nefteperera-  
borki i Neftekhimii). [1961] 9p. 5 refs. [DSIR LLU]  
M. 2994.

Order from OTS or SIA \$1.10

61-23238

Trans. of Khim[ia] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1959 [v. 4] no. 12, p. 14-19.

DESCRIPTORS: \*Sulfuric acid, Production, Petroleum,  
Processing, Chemical waste.

Diagrams and descriptions are given for (1) a low-tem-  
perature process for decomposing acid sludge, (2) a  
high-temperature process for decomposing spent sul-  
furic acid after the alkylation process, (3) a system for  
producing contact sulfuric acid in the form of oleum  
from natural and petroleum sulfur, and (4) a system for  
producing sulfuric acid from hydrogen sulfide by the  
(Engineering - Chemical, TT, v. 6, no. 4) (over)

61-23238

I. Zinov'yev, M. D.  
II. DSIR LLU M. 2994

17770

Office of Technical Services

Koffun, T. I. and Strom, D. A.  
 THE PRODUCTION OF "SYNTHETIC TANNING OIL"  
 BY THE USE OF SULPHURIC ACID (Izgotovleniye  
 "Sinteticheskogo Kozhennogo Zhira" s Primeneniyem  
 Sernoy Kisloty) [1961] [8]p. 4 refs. [DSIR LLU]  
 M 2995.

Order from CTS or SLA \$1.10

61-23239

Trans. of Khimiyu i Tekhnologii Topliv i Masel  
 (USSR) 1959 [v. 4] no. 12, p. 19-22.

DESCRIPTORS: \*Tannic acids, Production, Esters,  
 Oils, \*Fatty acids, \*Esterification, Glycols,  
 Ethylenes, Sulfuric acid, Catalysts.

The use of sulphuric acid as the catalyst in the produc-  
 tion of synthetic tanning oil on an industrial scale (1)  
 significantly reduces the esterification time (2) im-  
 proves the quality of the product according to iodine  
 number, (3) increases the stability of the product in  
 storage and (4) reduces the cost of the finished product  
 (Engineering-Chemical, TT, v. 6, no. 3) (over)

61-23239

I. Koffun, T. I.  
 II. Strom, D. A.  
 III. DSIR LLU M. 2995

175856

Office of Technical Services

61-23240

Ishchuk, Yu. L. and Strom, L. D.  
A CONTINUOUS PROCESS FOR ESTERIFICATION OF  
SYNTHETIC FATTY ACIDS BY ETHYLENE GLYCOL  
IN THE PRESENCE OF A CATALYST - SULFURIC  
ACID (Nepreeryvnyy Protsess Esterifikatsii Sinteti-  
cheskikh Zhirnykh Kislot Etilenglikolem v Prisutstvi  
Katalizatora - Serney Kisloty). [1961] [6]p. [DSIR LLU]  
M. 2996.  
Order from OTS or SLA \$1.10

I. Ishchuk, Yu. L.  
II. Strom, L. D.  
III. DSIR LLU M. 2996

Trans. of Khim[ia] i Teknol[ogiya] Topliv i Masel  
(USSR) 1959 [v. 4] no. 12, p. 22-24.

DESCRIPTORS: \*Fatty acids, \*Esterification, Glycols,  
Ethylene, Catalysts, Sulfuric acid, Industrial plants,  
Design, \*Tannic acids, Esters, Oils.

The use of sulphuric acid, instead of zinc oxide, as the  
catalyst has made it possible to construct a plant for  
continuous esterification of a wide fraction of synthetic  
fatty acids with ethylene glycol.  
(Engineering--Chemical, TT, v. 6, no. 3)

Office of Technical Services

175354

Freidin, B. G. and Tsykovskii, V. K.  
THE APPLICATION OF VARIOUS CATALYSTS FOR  
THE OXIDATION OF PARAFFIN (Primeneniye  
Razlichnykh Katalizatorov pri Okslenii Parafina).  
[1961] [10] p. 11 refs. [DSIR LLU] M. 2997.  
Order from OTS or SLA \$1.10 61-23241

Trans. of Khim[ist] i Tekhn[ologiya] Topliv i Masel  
(USSR) 1959 [v. 4] no. 12, p. 25-29.

DESCRIPTORS: \*Catalysts, Oxidation, \*Hydrocarbons,  
Potassium compounds, Manganese compounds, Per-  
manganates, Reaction kinetics.

The presence of potassium compounds stabilizes the  
valency state of manganese in the induction period of  
oxidation of hydrocarbons in the liquid phase which  
leads to an increase in the duration of the induction  
period but accelerates the formation of acids in the ad-  
vanced stage of the reaction. Under experimental con-  
ditions the influence of potassium permanganate was  
(Chemistry--Physical, TT, v. 6, no. 3) (over)

61-23241

I. Freidin, B. G.  
II. Tsykovskii, V. K.  
III. DSIR LLU M. 2997

175355

Office of Technical Services

61-23241

Zaslavskiy, Yu. S., Kreyn, S. Ye. and others.  
THE NATURE OF PROTECTIVE FILMS FORMED BY  
ANTI-CORROSION ADDITIVES IN MOTOR OILS  
(O Prirode Zashchitnykh Pленок, Obrazuyemykh Anti-  
korroziyeyimi Pленkami k Motornym Maslam).  
[1961] [12] p. 4 refs. [DSIR LLL] M 2998.  
Order from OTS or SLA 51.60 61-23242

Trans. of Khimicheskaya Tekhnologiya Topliv i Masel  
(USSR) 1959 (v. 4) no. 12, p. 29-35.

DESCRIPTORS: \*Lubricants, Corrosion inhibition,  
\*Lubricant additives, Effectiveness.

The mechanism of the action of anti-corrosive addi-  
tives in motor oils, containing sulphur or phosphorus,  
or containing sulphur and phosphorus together, results  
in the formation of films by these additives on the sur-  
face of the metal (steel) and these films are found to be  
protective only in the case where they are formed by  
molecules of the additive. From the polar, sulphur-  
(Materials - Lubricants, TT, v. 6, no. 3) (over)

61-23242

L Zaslavskiy, Yu. S.  
H. Kreyn, S. Ye.  
HL DSIR LLL M 2998

175359

Office of Technical Services

Freind, M. and Pallei, S.

A NEW METHOD FOR ASSESSING LUBRICATION  
OILS (Novyy Metod Otsenki Smazochnykh Masel).

[1961] [11] p. 16 refs. [DSIR LLU] M. 2999.

Order from OTS or SLA \$1.60

61-23243

Trans. of Tekhnol[ogiya] i Topliv i Masel  
(USSR) 1959 (v. 4) no. 12, p. 35-48.

DESCRIPTORS: \*Lubrication, \*Oils, Test methods,  
Diesel engines, Oxidation, Lubricant additives, Aging.

A new method of testing oils has been described suitable for assessment of engine lubricating oils under laboratory conditions. The results obtained by this method are in good agreement with results in rig tests in engines. The comparative data presented indicate that this method offers the possibility of preliminary assessment of lubricating engine oils. (Author)

(Materials--Lubricants, TT, v. 6, no. 3)

61-23243

I. Freind, M.  
II. Pallei, S.  
III. DSIR LLU M. 2999

175350

Office of Technical Services

The Structural-Group Composition of Fuels and Their  
Chemical Properties, by G. S. Shimonayev, L. S.  
Stepanova.

RUSSIAN, per, Khim i Tekh Topliva i Masel, No 12,  
1959, pp 41-45.

NLL M. 3000

Sci

Feb 62

186, 0900

A Spectrophotometric Method for the Determination  
of Butyl Alcohols, by Ya. E. Stenulyakovskiy. 7 pp.

RUSSIAN, per, Khim i Tekh Topliva i Masel, No 12,  
1959, pp 46-50.

NLL M. 3001

ATS RT-4062 also ATS-2081R

Sol - Chem

Feb 62

186, 844

Determination of the Dispersing Properties of  
Detergent Additives to Motor Oils, by E. A.  
Myshkin.

RUSSIAN, per, Khim i Tekh Topliva i Masel, No 12,  
1959, pp 50-54.

Sci

Feb 62

OTS 61-27571  
HLL M. 3002

AT-05M49R

ATS RJ-2855  
186,961

The Development of Jet Fuels Abroad, by V. N.  
Zrellov, UNCL 11 pp.

RUSSIAN, per, Khim i Tekh Topl'iv i Masel, No 12,  
1959, pp 54-59. 9660422

ATIC MEL-594/III

*Fuels*  
Sci - ~~Physics~~

Wire DC-2

Apr 68

147,785

The Role of the Petrochemical Industry in Chemical  
Production in the U.S.A., by Z. V. Kir'yanova,  
A. D. Rabinovich.

RUSSIAN, per, Khim i Tekh Topliva i Masel, No 12,  
1959, pp 60-63.

OTS 61-2754  
MLL M. 3004

USSR  
Sci  
Econ  
Feb 62

186,960

Phosphorus Containing Additives in Ethylated  
Automobile Benzenes to Combat the Harmful Effects  
of Scale on Engine Operation, by I. V. Rozhkov.

RUSSIAN, per, Khim i Tekh Topliva i Masel, No 12,  
1959, pp 64-67.

MLL M. 3005

Sci

Feb 62

186,962

Ministure Adsorption Apparatus for Removal of  
Benzene From Petroleum Gases,

RUSSIAN, per, Khim i Tekh Topliva i Masel, No 12,  
1959, pp 67-68.

ILL. M. 3006

Sci

Feb 62

186,911

Cracking and Hydrogenating Activity of  
Some Catalysts in a Process of Destruc-  
tive ~~KM~~ Hydrogenation of Residue Under  
a Pressure of 30 Atmospheres, by Y. R.  
Katsobashvili, S. A. Golosov, 6 pp.

RUSSIAN, per, Khim i Tekh Toplivo i  
Mashin, Vol V, No 1, 1960, pp 8-12.

Sci  
Mir 62  
Vol IV, No 2

ATS-20M40R

ATS-AI-2379  
788, 893

Improvement in Fuel Testing; Determination of Cloud  
Point by Ultrasonics, 3 pp.

RUSSIAN, per, ~~Khim i Tekh Topliva i Masel~~, No 1,  
1960, pp 13-16.

AID SIR-3330

Sci - Chem  
Aug 60

121,896

Polymerization of Hexylenes and of Heptylenes on a  
Tungsten Sulfide Catalyst, by Ye. G. Vol'pova,  
A. V. Lyudskov, 5 pp.

RUSSIAN, per, Khim i Tekhnologiya Topliv i  
Masel, Vol V, No 1, 1960, pp 32-35.

SLA 60-18739

MS-BJ-3882

203,244

Sci

Jun 62

Effects of a Gas Cushion on the Thermal Stability of  
TS-1 Fuel, by I. N. Danilov, Kh. A. Murzabulatov,  
5 pp.

RUSSIAN, per, Khim i Tekh Topl i Masel, No 2,  
1960, pp 41-46.

JPRS 2791

Sci- Chem

Oct 60

Determination of the Dispersive Efficiency  
of Oils With Added Detergents, by  
A. M. Rabikobiche, G. C. Vinner, 7 pp.

RUSSIAN, per, Khim i Tekh Topliv i Masel.  
1960, pp 57-61. ~~9213992~~

ACSIL Tr 1410

Sci - Chem  
Jan 64

248,842

The Higher n-Paraffins in Bitkov  
and Dalinskoye Crude Oils, by Ye. F.  
Yatsenko, N. I. Chernobukov,  
5 pp.

RUSSIAN, per, Khim i Tekh Toplivo i  
Masel, Vol V, No 3, 1960, pp 1-5.

Sol  
Vol IV, No 11  
Jun 62

ATS-5444R

ATS-RJ-2929  
199, 289

The Thixotropic Properties of Lubricating Grease,  
by K. I. Klinov, B. I. Leont'yev, 7 pp.

RUSSIAN, per, Khim i Tekh Toplivo i Masel, Vol 7,  
No 3, 1960, pp 17-21. 9088296

A.C.S.I.L. No 1344

Sci - Chem

Jul 62

203, 135

Electrochemical Method for Evaluation of  
Protective Properties in Grease Lubricants, by  
V. M. Martynov, M. V. Morozova, 8 pp.

RUSSIAN, per, Khim i Tekhnologiya Topliv i Masel,  
Vol V, No 3, 1960, pp 22-28.

SLA 60-18740

Sci  
Jul 62

203,549

Vol 4, No 12

RUSSIAN to FRENCH: OTE 62-26841

The Determination of Solid Material Flow  
Rates in Pneumatic Transport Systems,  
by G. E. Abayev, 11 pp.

RUSSIAN, per, Khim i Tekh Topliv i  
Mazel, Vol V, No 3, 1960, pp 28-35.

ATS-291431R  
ATS/RJ-2482

Sci  
Vol IV, No 11  
Jun 62

199, 280

Effect of the Conditions of Preparation  
on the Porous Structure in Aluminosilicagels,  
by A. V. Kiselev, Yu. S. ~~XXXX~~ Nikitin, 9 pp.

RUSSIAN, per, Khim i Tekhnol Toplivo i Masel,  
Vol V, No 3, 1960, pp 35-42.

Vol V, No 5  
Jul 61

SLA 61-10365

ATS-12 M-12R  
ATC/RT-1212  
160,173

Changes in the Tendency of Oil to Form Lacquer  
During Operation of an Engine, by A. R.  
Kosyakin, 4 pp.

RUSSIAN, per, Khim i Tekh Topliv 1  
Mashin, Vol V, No 3, 1960, pp 54-56.

ATS-92442R

Sci  
Vol IV, No 11  
Jun 62

ATS-RJ-2899, 288

Taubman, A.B., Konstantinova, V.V. and  
Kryukova, A.S.  
DETERMINATION DE LA CONCENTRATION CRITI-  
QUE DE FORMATION DE MICELLES DES PRODUITS  
TENSIOACTIFS (A Method for Determining the Criti-  
cal Concentration of Micelle Formation of Surface-  
active Agents). 13p. 13 refs. CNRS-VIII bis 652.  
Order from OTS, ETC or CNRS \$1.60 TT-62-26558

Trans. in French of Khimiya i Tekhnologiya Toplivo  
i Masel (USSR) 1960, v. 5, no. 3, p. 67-66.

DESCRIPTORS: \*Colloids, Surface-active substances,  
\*Colorimetric analysis, Volumetric analysis, Spec-  
trophotometers.

(Chemistry-Physical, TT, v. 11, no. 9)

TT-62-26558

I. Taubman, A.B.  
II. Konstantinova, V.V.  
III. Kryukova, A.S.  
IV. CNRS-VIII bis 652  
V. Centre National de la Recher-  
che Scientifique, Paris

Office of Technical Services  
European Translations Centre

Methods of Increasing the Energy Content of  
Hydrocarbon Fuels, by Ya. B. Chertkov, 7 pp.

RUSSIAN, per, Khim i Tekh Toplivo i Masel,  
No 4, 1960, pp 1-4. 9663464

FTD MCL-1300/1

Sci - Fuels

171, 846

25 Oct 61

Levina, M. I.  
SOLUBILITY OF GASES IN DIESEL FUEL AND IN  
GAS OIL FROM CATALYTIC CRACKING, INVESTI-  
GATED UNDER HIGH PRESSURES. [1960] 6p.

3 refs.

Order from LC or SLA m\$1.80, ph\$1.80 61-10364

Trans. of Khim[ya] i Tekhnol[ogiya] Topliv (i Masel)  
(USSR) 1960 [v. 5] no. 4, p. 5-7.

A determination of solubility for  $H_2$ ,  $N_2$ ,  $CO$ ,  $CH_4$ ,  
and  $CO_2$  gases in diesel fuel and in catalytic-cracking  
gas oil under 3- to 40-atm pressure was made by  
using the method of V. V. Plat'yev and M. I. Levina  
(Khim. Tverdogo Topliva 8: 866, 1937; available in  
translation from LC or SLA as 59-14126). The solu-  
bility coefficient under pressure up to 15 kg/sq cm  
shows no significant deviation from Henry's law even  
for  $CO_2$  and  $CH_4$ .

(Chemistry--Physical, TT, v. 5, no. 8)

61-10364

1. Gases--Solubility.
2. Fuel oil--Solvent  
properties
1. Levina, M. I.

151423

Office of Technical Services

Isgulyants, V. L., Tishkova, V. N., and  
Grushevenko, I. A.  
PRODUCTION OF SYNTHETIC LUBRICATING OILS  
OF THE TYPE OF POLYGLYCOL ETHERS. [1969]

7p.

Order from ATS \$7.85

ATS-73M44R

Trans. of Khim[ist] i Tekhnol[ogi]i Topliv i Masel  
(USSR) 1969, v. 5, no. 4, p. 8-13.

146,986

FTD-TT-51-502

(Materials--Lubricants, TT, v. 5, no. 5)

61-12336

1. Synthetic oils--Production
2. Lubricating oils--  
Production

3. Ethers--Properties

- I. Isgulyants, V. L.

- II. Tishkova, V. N.

- III. Grushevenko, I. A.

- IV. ATS-73M44R

- V. Associated Technical  
Services, Inc., East  
Orange, N. J.

ATS-RJ-3832

Office of Technical Services

(BP-1584)

Present Day Status of Chemistry and Technology of  
Petroleum in China, by Chang Ta-yu, 4 pp.

RUSSIAN, per, Khimiya i Tekhnologiya Topliv i Masel,  
Vol V, No 4, 1960, pp 66-69.

JPRS 4503

Sci - Chem

NLLTC 2000

Vol 3, 72

Apr 61

147,356

Agafonov, A. V., Gel'ms, I. E., and  
Rabinovich, E. I.

CHOICE OF A CATALYST FOR CRACKING RESID-  
UAL PETROLEUM FRACTIONS AND AN INVESTI-  
GATION OF CATALYST POISONING IN THE PROC-  
ESS. Oct 61, 6p. 8 refs.  
Order from ICE in v. 1, no. 1, \$15.00/year

Trans. of Khim[iya] i Tekh[nologiya] Topliv i Masel  
(USSR) 1960 [v. 5] no. 5, p. 6-12.

DESCRIPTORS: \*Petroleum, Decomposition, Cata-  
lysts, \*Catalysis, Aluminates, Metal poisoning, Steam.

(Engineering--Chemical, TT, v. 8, no. 8)

62-22183

- I. Agafonov, A. V.
- II. Gel'ms, I. E.
- III. Rabinovich, E. I.
- IV. International Chemical  
Engineering, New York

Office of Technical Services

Nazarova, S. S.  
THE ACTION OF SULFURIC ACID ON TRI-  
METHYLPENTENES. [1960] 6p.  
Order from ATS \$8.50

ATS-72M44R

Trans. of Khim[ya] i Tekhnol[ogiya] Topliv i Masel  
• (USSR) 1960, v. 5, no. 5, p. 41-45.

147,047

TS-72M44R

61-12337

1. Pentenes--Chemical reactions
2. Sulfuric acid--Chemical reactions
1. Nazarova, S. S.
- II. ATS-72M44R
- III. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 5)

Automation of Catalyst Circulation System in  
Catalytic Cracking Installation, by A. F.  
Anisimov, A. G. Samarskiy, Yu. A. Alekseyev,  
7 pp.

RUSSIAN, per, Khimiya i Tekhnol. Topliv i  
Masel, Vol V, No 6, 1960, pp 1-6.

SIA 61-10363

Vol V, No 5  
Jul 61

160,165

Khrulev, M. V., Kogan, P. S., and Potolovskiy, L. A.  
HIGH TEMPERATURE PYROLYSIS OF THE ETH-  
ANE FRACTION IN TUBULAR FURNACES. [1960]  
7p. 8 refs.

Order from LC or SLA m\$1.80, ph\$1.80 61-10362

Trans. of Khimiya i Tekhnol[ogiya] Topliv [i Masel]  
(USSR) 1960 [v. 5] no. 6, p. 13-17.

Conditions for a high temperature pyrolysis of the  
ethane fraction in tubular furnace were studied and  
determined for production of a maximum yield in  
ethylene. The heat course of the furnace work was  
investigated. Comparative data on ethane fraction  
pyrolysis in laboratory and pilot plant installations,  
under equal conditions of temperature and of ethane  
conversion, are mentioned. (Author)

(Engineering--Chemical, TT, v. 5, no. 4)

61-10362

1. Ethanes--Decomposition
2. Furnaces--Operation
3. Ethylenes--Production

I. Khrulev, M. V.

II. Kogan, P. S.

III. Potolovskiy, L. A.

143,175

Office of Technical Services

Cherednichenko, G. L., Telyashov, G. G., and  
Gumerov, Z. Z.  
PRODUCTION OF FEED STOCK FOR THE MANU-  
FACTURE OF TRANSFORMER OIL. [Jan 64] 6p  
Order from ATS \$8.25      ATS-70Q73R

Trans. of Khim[iya] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1960, v. 5, no. 6, p. 24-28.

DESCRIPTORS: Oils, Petroleum, Lubricants,  
Manufacturing methods.

(Materials--Lubricants, TT, v. 11, no. 10)

TT-64-12405

- I. Title: Transformer oils
- I. Cherednichenko, G. L.
- II. Telyashov, G. G.
- III. Gumerov, Z. Z.
- IV. ATS-70Q73R
- V. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

Solid Lubricant Coatings, by L. N. Sentyurikhina,  
Ye. M. Oparina, Z. S. Rubtsova, N. A. Suvorovskaya,  
UNCL,

RUSSIAN, per, Khim i Tekh Topliv i Masel, No 7, 1960,  
pp 24-29.

\*ATIC MCL-1129/1

Sci - Fuels

29 Jun 61

C-1044

ATS - 76N470

ATS - RJ - 2884

Sablina, Z. A. and Gureyev, A. A.  
THE NON-HYDROCARBON COMPONENTS OF FUEL  
AS BASIC SOURCE FOR DEPOSITS FORMATION AT  
HIGH TEMPERATURES. [1960] 7p. 10 refs.  
Order from LC or SLA mi\$1.80, ph\$1.80 61-10726

Trans. of Khimiya i Tekhnologiya Topliv i Masel  
(USSR) 1960 [v. 5] no. 7, p. 33-38.  
Abstract translation available from LC or SLA  
mi\$1.80, ph\$1.80 as 60-23826, AID-60-43, 4 Aug 60.  
2p.

The thermal stability of commercial straight-run fuels  
of kerosene type is mainly determined through charac-  
ter and quantity of the non-hydrocarbon, resinous  
compounds contained in them and representing the  
basic source of high-temperature deposits. The hy-  
drocarbon part of different commercial fuels has  
practically an equal high temperature stability. The  
dominant influence of non-hydrocarbon resinous com-  
ponents on the thermal stability is observed also in  
(Materials--Fuels, TT, v. 3, no. 9) (over)

61-10726

1. Jet engine fuels--Impurities  
1. Sablina, Z. A.  
II. Gureyev, A. A.

NLL M.2673

P 151834

ATS-RJ-2886

Office of Technical Services

Namict, A. Yu. and Belder, S. Ya.  
WATER SOLUBILITY OF N-PENTANE AND N-HEX-  
ANE. [1960] 5p. 12 refs.  
Order from LC or SLA ml\$1.80, ph\$1.80 61-10725

Trans. of Khimiyal Tekhnologiyal Topliv. (I. Masel)  
(USSR) 1960 [v. 5] no. 7, p. 52-55.

151833

(Chemistry--Organic, TT, v. 5, no. 9)

61-10725

1. Hexanes--Solubility
  2. Pentanes--Solubility
  3. Water--Solvent properties
- I. Namict, A. Yu.
  - II. Belder, S. Ya.

Office of Technical Services

Figuzova, L. I., Nikitin, Yu. S., and Shvartsman,  
I. P.  
DEPENDENCE OF THE STABILITY OF THE POROUS  
STRUCTURE AND OF THE ACTIVITY OF A SILICA-  
ALUMINA CATALYST ON CHANGES IN THE CHEMI-  
CAL COMPOSITION. [1961] 7p.  
Order from ATS \$12.60

ATS-25M47R

Trans. of Khimicheskii Tekhnologii Topliv i Masel  
(USSR) 1960, v. 5, no. 8, p. 15-21.

DESCRIPTORS: \*Alumina-silica catalysts, Stability,  
Porosity, Chemical properties.

(Chemistry--Physical TT, v. 6, no. 4)

61-2244  
I. Figuzova, L. I.  
II. Nikitin, Yu. S.  
III. Shvartsman, L. P.  
IV. ATS-25M47R  
V. Associated Technical Service  
Inc., East Orange, N. J.

ATS-RJ-253

177734

Office of Technical Services

61-21762

The Oxidation of Soft Paraffin Obtained From  
Shale to Fatty Acids.

RUSSIAN, per, Khim i Tekhnol Toplivo i Masel, Vol V,  
No 8, 1960, pp 21-24.

Possibly to Come From Contacts  
per 10 Dec 62 memo  
USIB INTERNAL USE ONLY

Sci - Chem

Dec 62

Avallani, T. K. and Monastyrskiy, V. N.  
TECHNOLOGY SYNTHESIS AND DEVELOPMENT  
FOR PRODUCTION OF SULFONATE BASED ALKA-  
LINE ADDITIVES. [1960] 7p. 7 refs.  
Order from LC or SLA ml\$1.80, ph\$1.80 61-10724

Trans. of Khim[ya] i Tekhnol[ogiya] Topliva [i Masel]  
(USSR) 1960 [v. 5] no. 8, p. 29-34.

The synthesis and principal development of a technol-  
ogy for production of high-efficient component or addi-  
tive - the ash-rich sulfonate (PMS) containing a 3.5-5  
fold stoichiometric amount of metal, using the phenol  
as selective solvent and reaction promotor, was  
achieved. Distillate oils from sulfur-rich petroleum  
with different viscosity and neutral sulfonation prod-  
ucts, separated in production of the white oils from  
sulfur-poor petroleum in the plant of Yaroslavl, were  
applied as raw material. The advantage of produced  
additives PMS against the usual neutral sulfonate addi-  
tives, and also the fact, that oils from sulfur-rich  
(Chemistry--Organic, TT, v. 5, no. 9) (over)

61-10724

- I. Sulfonates--Synthesis
- I. Avallani, T. K.
- II. Monastyrskiy, V. N.

151832

Office of Technical Services

Kusakov, M. M., Lubman, N. M., and  
Shchetako, M. I.  
INVESTIGATION OF THE STATE AND DISTRIBUTION  
OF WATER IN FUEL, tr. by Lionel Mote.  
[1961] [9] p. 5 refs. TRC Trans. no. 1045;  
[DSIR LLU M. 3026.  
Order from OTS or SLA \$1.10 61-27575

Trans. of Khimiya i Tekhnologiya Topliv i Masel  
(USSR) 1960 [v. 5] no. 8, p. 63-66.

DESCRIPTORS: \*Fuels, Water, Distribution.

The quantity of water  $a$  introduced into a unit volume of  
fuel at a given temperature (after thorough agitation)  
can be expressed as  $a = s + e + w + v$ , where  $s$  is the  
equilibrium solubility of water in the fuel at the given  
temperature,  $e$  is the quantity of water in the fuel in  
the form of micro-emulsion at the same temperature,  
(Materials - Fuels, TT. v. 6, no. 9) (over)

61-27575

I. Kusakov, M. M.  
II. Lubman, N. M.  
III. Shchetako, M. I.  
IV. TRC Trans-1045  
V. DSIR LLU M. 3026  
VI. Thornton Research Centre,  
Shell Research Ltd.  
(Gr. Brit.)

185599

Office of Technical Services

Separation of Mixed Aromatic and Aliphatic  
Hydrocarbons by Means of Butadiene Nitrile  
Copolymers, by G. L. Starobinets.  
RUSSIAN, per, Khimiya i Tekh Topliva i  
Masel, Vol 5, No 9, 1960, pp 16-19.  
NTC 69-12513-07C

Sci-Chem  
Aug 69

389,359

Mechanical Entrainment of Gas in Liquid  
During Flow Over Perforated Ripple Plates,  
by I. A. Aleksandrov, A. I. Skoblo.

RUSSIAN, per, Khim i Tekh Topliva i Masel,  
No 9, 1960, pp 42-45.

GB/28

Sci-Engr  
Jun 63

~~234,641~~  
234,660

Chertkov, Ya. B.  
ON THE MECHANISM OF DEPOSIT FORMATION IN  
T-TYPE PIPES, by Leonid Mote. [1961] 112 p.  
10 refs. TRC Trans. no. 1049, [DSIR LRU] M-1133.  
Order from KITS or SLA \$1.00 61-27531

Trans. of Khim[ya] i Tekhnol[ogii] Toply. i Masel  
(USSR) 1961 (v. 5) no. 3, p. 57-61.  
Abstract trans. available from LC or SLA in \$1.80,  
p51, 80 as 61-14899, AID-60-66, 7 Oct 60, 2p.

DESCRIPTORS: \*Jet engine fuels, Chemical reactions,  
Kerosene, Deposits, Temperature, Stability, \*Fuels.  
For abstract see Technical Translations 5: 24, 1961.

(Material from: Tr. v. 6, no. 11)

61-27531

I. Chertkov, Ya. B.  
II. TRC Trans. 1049  
III. DSIR LRU M-1133  
IV. Thornton Research Centre,  
Shell Research Centre,  
(G. Brit.)

168723

Office of Technical Services

(SF-1207 ).

Eighth Scientific Conference on the Use of Ultra-  
acoustics in the Study of Matter, by M. A. Soskin, *pp*

RUSSIAN, per, Khim i Tekh Topliv i Masel, No 9, 1960,  
pp 71-72.

\*JPRS 4218

Sci - Physics/Chemistry

3 Nov 60

Berenson, S. P.  
THE LACQUER-FORMING PROPERTIES OF OILS IN  
THE VAPOUR PHASE, tr. by Lionel Mote. [1961]  
[8]p. 6 refs. TRC Trans. no. 1050; [DSIR LLU]  
M4001.

Order from OTS or SLA \$1.10

61-28176

Trans. of Khimiya [I] Tekhnologiya Topliva i Masel  
(USSR) 1960 [v. 5] no. 10, p. 38-41.

DESCRIPTORS: \*Oils, \*Vaporization, \*Varnishes,  
\*Phase transitions, Physical properties, Chemical  
reactions.

Tests indicated that vapour-phase lacquer-formation  
represents one of the important elements in the pro-  
cess of formation of lacquer deposits. The intensity of  
the lacquer-formation in the vapour phase depends on  
the temperature, chemical and fractional composition  
(Chemistry-Physical, TT, v. 7, no. 6) (over)

61-28176

- I. Berenson, S. P.
- II. TRC Trans-1050
- III. DSIR LLU M. 4001
- IV. Thornton Research Centre,  
Shell Research Ltd.  
(Gr. Brit.)

Office of Technical Services

Kinetic Aspects of the Catalytic Cracking  
of Heavy Distillate Stocks, by G. M. Pan-  
chenkov.

RUSSIAN, per, Khim i Tekhnol Topliv i Masel,  
Vol V, No 11, 1960, pp 4-8.

AT3 R/-3981

Sci-Chem  
Dec 63

244,865

Kalantar, N. G., Fryazinov, V. V. and others.  
TRANSFORMER OIL FROM THE DISTILLATES OF  
SOUTH EASTERN CRUDES. [1961] 10p.  
Order from ATS \$13.20      ATS-71N48R

Trans. of Khim. i Tekhnol. Topliv i Masel  
(USSR) 1960, v. 5, no. 11, p. 15-22.

DESCRIPTORS: Oils, \*Petroleum.

61-25194

- I. Title: Transformer oils
- I. Kalantar, N. G.
- II. Fryazinov, V. V.
- III. ATS-71N48R
- IV. Associated Technical  
Services, Inc.,  
East Orange, N. J

101325

Office of Technical Services

(Materials-Lubricants, TT, v. 6, no. 7)

(NY-5835)

The Operational Properties of T-Type Fuel  
Stabilized by an Antioxidizing Agent FCh-16, by  
I. V. Rozhkov, K. I. Klimov, Ye. N. Kornilova,  
A. V. Vilenkin, 8 pp.

RUSSIAN, per, Khim i Tekh Toplivo i Masel,  
Vol. V, No 11, 1960, pp 49-53.

JPRS 9024

Sci - Chem

154, 427

May 61

Zhukhovitskiy, A. A., Selenkina, M. S., and  
Turkel'taub, N. M.  
METHOD OF CHROMATOGRAPHIC IDENTIFICATION  
OF COMPONENTS OF HYDROCARBON MIXTURES.  
tr. by A. M. Grynch. [1961] [20]p. 8 refs. TRC Trans.  
no. 1051. [DSIR LLU] M. 4006.  
Order from OTE or SLA \$1.60 61-28180

Tr. of Khimicheskaya Topika i Masel (USSR)  
1960 [v. 5, no. 1], p. 57-64.

DESCRIPTORS: \*Hydrocarbons, Mixtures, \*Chromato-  
graphic analysis, Test methods, Identification, Deter-  
mination, Boiling, Gases, Liquids, Temperature, Mo-  
lecular structure.

The method proposed for identifying components of  
hydrocarbon mixtures enables the qualitative compo-  
sition of complex mixtures to be determined, on the  
basis of measurement of retention volumes and of some  
(Chemistry--Physical, TT, v. 6, no. 11) (over)

61-28180

- I. Zhukhovitskiy, A. A.
- II. Selenkina, M. S.
- III. Turkel'taub, N. M.
- IV. TRC Trans-1051
- V. DSIR LLU M. 4006
- VI. Thornton Research Centre,  
Shell Research Ltd.  
(Gr. Brit).

ATE RJ-3982

185700

Office of Technical Services

(NY-5835)

An Evaluation of the Combustion Characteristics of  
Fuel for Turbojet Engines and Small-Size, Mono-  
Chambered Units, by Ye. R. Tereshchenko, B. D.  
Zaloga, S. M. Maksimov, 12 pp.

RUSSIAN, per, Khim i Tekh Toplivo i Masel, Vol V,  
No 11, 1960, pp 64-70.

JPRS 9025

Sci - Chem

May 61

154, 197

Sadchikova, M. F. and Gol'dberg, D. O.  
METHODS OF IMPROVING THE STABILITY OF  
PHENOL-EXTRACTED TRANSFORMER OIL AND  
HIGH-SULFUR CRUDES. [1961] 8p.  
Order from ATS \$5.70

ATS-02N51R

Trans. of Khimiyali Tekhnologiya [Topliv. i Masel  
(USSR) 1960, v. 5, no. 12, p. 18-24.

DESCRIPTORS: \*Petroleum. \*Oils. Stabilization.

(Materials--Lubricants, TT, v. 6, no. 7)

61-25211

- I. Title: Transformer oils
- I. Sadchikova, M. F.
- II. Gol'dberg, D. O.
- III. ATS-02N51R
- IV. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services

1 Masel

Khim: Tekh Topliy  
Masel

Il'yasov, A. V., Garif'yanov, N. S., and  
Ryzhnikov, Yu. M.  
ELECTRONIC PARAMAGNETIC RESONANCE IN  
SOME TYPES OF NATURAL PETROLEUM AND IN  
THEIR HEAVY FRACTIONS (Elektronnyi Para-  
magnitnyi Rezonans v Nekotorykh Sortakh Prirodnogo  
Nefti i Ee Tyazhelykh Fraktsiyakh). [1964] (figs  
omitted) 14 refs  
Order from OTS, SLA, or ETC \$1.10 TT-64-10971

Trans. of Khimiya i Tekhnologiya Topliv i Masel  
(USSR) 1961, v. 6, no. 1, p. 28-31.

(Materials--Fuels, TT, v. 12, no. 2)

TT-64-10971

- I. Il'yasov, A. V.
- II. Garif'yanov, N. S.
- III. Ryzhnikov, Yu. M.

Office of Technical Services

61-25216

Zaslavskii, Yu. S. and Shor, G. I.  
STUDY OF THE STABILITY OF SOLUTIONS OF  
ADDITIVES IN LUBE OILS BASED ON THEIR ELEC-  
TRICAL CONDUCTIVITY. [1961] 4p.  
Order from ATS 46 50

ATS-96NS1R

Trans. of Khim[ia] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1961, v. 6, no. 1, p. 52-54.

DESCRIPTORS: \*Oils, \*Lubrication, \*Lubricant  
additives, Stability, Electrical conductance.

- I. Zaslavskii, Yu. S.
- II. Shor, G. I.
- III. ATS-96NS1R
- IV. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services

(Materials - Lubricants, TT, v. 6, no. 7)

Somov, V.A. and Krylov, E.I.  
SUR LES HUILES A CYLINDRES DES MOTEURS  
DIESEL DE GRANDE PUISSANCE A REGIME LENT  
(O tsilindrovyykh Maslakh Dlya Malooborotnykh  
Dizelei Bol'shoi Moshnosti) (Cylinder Oils for Low  
Speed High-Output). 12p. (foreign text included)  
CNRS-VI 585.  
Order from OTS, ETC or CNRS \$1.60 TT-62-28706

Trans. in French of Khimiya i Tekhnologiya Topliv i  
Masel (USSR) 1961, v.6, no.1, p.54-57.  
Trans. in English is available from ATS \$7.00 as  
ATS-59N51R, 1961, 5p.

DESCRIPTORS: Oils, \*Diesel engines, \*Fuel oil,  
Lubricants, Lubricant additives.

(Materials--Lubricants, TT, v. 11, no. 9)

TT-62-28766

- I. Somov, V.A.
- II. Krylov, E.I.
- III. CNRS-VI 585
- IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services  
European Translations Centre

Gedaskina, N. D., Plaksa, Kh. L., and  
Rudkovskii, D. M.  
PRODUCTION DES DODECYLBENZENESULFONATES  
DE SODIUM A PARTIR DES PRODUITS DE COKE-  
FACTION (Dodecyl Benzene Sulfonates of Sodium from  
Products of Coking). 9p. 4 refs. FR-1776.  
Order from OTS, ETC or CNRS \$0.80 62-26439

Trans. in French of Khimiya i Tekhnologiya Topliva i  
Mazel (USSR) 1961, v. 6, no. 2, p. 19-16.

DESCRIPTORS: \*Detergents, \*Sulfonates, Sodium com-  
pounds, Phenyl radicals, \*Petroleum, Decomposition,  
Alkyl radicals.

(Engineering--Chemical, TT, v. 10, no. 9)

62-26439

1. Title: Dodecyl benzene  
sulfonates

I. Gedaskina, N. D.

II. Plaksa, Kh. L.

III. Rudkovskii, D. M.

IV. F/R-1776

V. Centre National de la  
Recherche Scientifique,  
Paris (France)

Office of Technical Services

Indyukov, N. M. and Logonova, S. N.  
CATALYTIC IMPROVEMENT OF KEROSENE BY  
THERMAL CRACKING. 4 May 61 [1]p. AID rept.  
61-60, AID 61-60

Order from OTS or SLA \$1.10

61-23501

Abstract trans. of *Khimiya i Tekhnologiya Topliv i  
Masel* (USSR) 1961 [v. 6] no. 2, p. 16-20.

DESCRIPTORS: \*Kerosene, Fuels, Catalysis,  
Decomposition, \*Fuel oil

Cracked kerosene, which boils between 174 and 300°C  
and which contains a high percentage of unstable hy-  
drocarbons (actual gums, 84.0%; iodine number, 58.5),  
can be converted into a diesel fuel (actual gums,  
49.4-53.0%; iodine number, 5.5 - 6.9). The fuel meets  
the requirements of Soviet BTY-546-56 standards,  
except for its low flash point of 28°C (a minimum of  
35°C is required). The flash point can be raised by  
distilling off the head fraction to 165°C (12% by weight).  
(Materials--Fuels, TT, v. 6, no. 7) (over)

61-23501

I. Indyukov, N. M.  
II. Logonova, S. N.  
III. AID-61-60  
IV. Air Information Div.,  
Washington, D. C.  
V. AD-257 906

181861

Office of Technical Services

(Materials--Lubricants, TT, v. 6, no. 9)

Office of Technical Services

Methods of Estimating the Quality of Jet  
Fuels, by V. N. Zrellov, 17 pp.

RUSSIAN, per, Khim i Tekh Topliv i Masel,  
No 2, 1961, pp 66-70. 9676134

FTD-TT-62-17  
AIAA (SIP)

Sci - Fuels

5 Apr 62

189,765

Effect of Velocity of Vapour on Partial Mass-  
Transfer Coefficients in the Vapour and Liquid  
Phases in Rectification in Plate Columns, by  
B. N. Orlov, A. N. Planovskiy.

RUSSIAN, per, Khim i Tekh Teoriya i Masal, Vol VI,  
No 3, 1961, 2 pp 7-10.

NLI, N 3384

125,395

Sci - Chem  
Mar 63

Molokanov, Yu. K., Aleksandrov, I. A., and  
Skoblo, A. I.  
VERSUCHE MIT SIEBBODEN IN EINER LABORKOLON-  
NE (Experiments on Perforated Bottoms in a Labora-  
tory Column): 92. (text in German).  
Order from T.I.B. \$1.55

Trans. of Khimiya i Tekhnologiya Topliva i Masel  
(USSR) 1961, no. 3, p. 34-39.

DESCRIPTORS: Fractionation, Distilling plants,  
Test equipment.

62-27020

I. Molokanov, Yu. K.  
II. Aleksandrov, I. A.  
III. Skoblo, A. I.  
IV. T.I.B.  
V. Technische Informations-  
bibliothek Hannover

Office of Technical Services

Methods of Removing Entrained Dust From Cyclones Places  
in Fluidized Bed ~~MX~~ Equipment, by I. Ya. Barsukov,  
G. S. Erokhin.  
RUSSIAN, par, Khim i Tekh Top i Masel, Vol VI, No 3, 1961,  
pp 36-39.

CEL/T. 1327

Sci X- M/M

Feb 64

250,138

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Tsyakovskii, V. K. and Levina, M. I.<br/>THE OXIDATION OF HYDROCARBONS BY VARIOUS<br/>METHODS. [1961] 2p.<br/>Order from ATS \$3.00</p> <p>Trans. of Khimiya i Tekhnologiya Topliva i Masel<br/>(USSR) 1961, v. 6, no. 3, p. 66-67.</p> <p>DESCRIPTORS: *Hydrocarbons, Oxidation.</p> <p>(Chemistry--Organic. TT. v. 6, no. 6)</p> | <p>61-25067</p> <p>I. Tsyakovskii, V. K.<br/>II. Levina, M. I.<br/>III. ATS-19N53R<br/>IV. Associated Technical Services<br/>Inc., East Orange, N. J.</p> <p>176728</p> <p>Office of Technical Services</p> |
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Karzhev, V.I., Kasatkin, D.F. and others.  
EXTRACTION DES HYDROCARBURES AROMATI-  
QUES PAR LE CARBONATE DE PROPYLENE (Izvlach-  
eniye aromaticheskikh Uglevodorodov Propilenkarbo-  
natom) (The Separation of Aromatic Hydrocarbons  
with Propylene Carbonate), 13p. (foreign text in-  
cluded) 9 refs. (CNRS-VI 760.  
Order from OTS, ETC or CNRS \$1.60 TT-62-28747

Trans. in French of Khimiya i Tekhnologiya Topliv  
i Masel (USSR) 1961, v. 6, no. 4, p. 6-9.  
Other translations are available in German from TIB  
\$1.30, 6p and in English from ATS \$7.00 as  
ATS-59N51R [1961] 5p. + OTS 63-10240

DESCRIPTORS: \*Hydrocarbons, Propenes, Carbona-  
tes, \*Solvent extraction, Separation.

(Chemistry--Organic, TT, v. 11, no. 9)

TT-62-28747

- I. Karzhev, V.I.
- II. Kasatkin, D.F.
- III. CNRS-VI 760
- IV. Centre National de la Recher-  
che Scientifique, Paris

Office of Technical Services  
European Translations Centre

Piguzova, L. I.  
THERMAL STABILITY OF THE STRUCTURE OF  
SORBENTS OF THE MOLECULAR SIEVE TYPE.  
[1961] 7p.  
Order from ATS \$10.80

ATS-81N57R

Trans. of Khim[iya] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1961, v. 6, no. 4, p. 9-14.

DESCRIPTORS: \*Absorption, \*Adsorption, \*Heat,  
\*Stability; Molecular structure.

(Physics--Molecular, IT, v. 7, no. 10)

62-12538

- I. Piguzova, L. I.
- II. ATS-81N57R
- III. Associated Technical Services,  
Inc., East Orange, N. J.

ATS RT-3929

Office of Technical Services

Rogov, S. P., Danilevich, A. F. and others.  
LUBE OIL HYDROTREATING. [1961] 5p.  
Order from ATS \$7.75      ATS-88N54R

Trans. of Khim[iya] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1961, v. 6, no. 4, p. 23-27.

DESCRIPTORS: \*Lubrication, \*Oils, Processing.

(Materials--Lubricants, TT, v. 7, no. 4)

62-12133

- I. Rogov, S. P.
- II. Danilevich, A. F.
- III. ATS-88N54R
- IV. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

Lube Oil Hydrotreating, by N. M. Gerasimenko, G. I. Yastrebov, 5 pp.

RUSSIAN, par, Khim i Tekh. Topliv i Masel, Vol VI, No 4, 1961, pp 27-31.

ATS-87N54R

Sci

Apr 62

Vol VII, No 4

Pal'chikov, G.F.  
ORTENTION DE PARAFFINES À PARTIR DES DISTIL-  
LATS PARAFFINQUES PAR EXTRACTION À LA  
PYRIDINE AQUEUSE (Poluchenie Parafinov iz  
Parafini Stykh Distillyatov Ekstraksiei Vodnym  
Piridinom) (The Production of Paraffins from Paraffin  
Distillates with Aqueous Pyridine). 14p. (foreign text  
included) 4 refs. CNRS-VI 673.  
Order from OTS, ETC or CNRS \$1.60 TT-62-28734

Trans. in French of Khimiya i Tekhnologiya Topliv  
i Masel (USSR) 1961, v. 6, no. 4, p. 31-35.

DESCRIPTORS: \*Petroleum, \*Waxes, Distillation,  
Pyridines.

(Chemistry--Organic, TT, v. 11, no. 9)

TT-62-28734

I. Pal'chikov, G.F.  
II. CNRS-VI 673  
III. Centre National de la Recher-  
che Scientifique, Paris

Office of Technical Services  
European Translations Centre

Vishnevskii, N. E.  
ISOTHERMAL LABORATORY APPARATUS. [1962]  
Sp. 2 refs.  
Order from OTS or SLA \$1.10 (2-14857

Trans. of Khim[iya] i Tekhnol[ogiya] Topliva i Masel  
(USSR) 1961 [v. ( ) no. 4, p. 56-57.

DESCRIPTORS: \*Laboratory equipment, Heat transfer,  
Towers (Chemistry)

The apparatus is designed for creation of isothermal conditions in continuous liquid-phase processes, accompanied with an important evolution of heat. Conditions of the processes: pressure up to 200 atm., temperature until 300 C, useful volume 0.2 L., productivity 2 L./hour and above. The gas volume of reactor is reduced to a minimum through installation of a pad between upper and lower ball-bearing, made of stainless steel as also all reactor parts, containing a corrosive medium. (Author)

62-14857

I. Vishnevskii, N. E.

(Chemistry, TT, v. 8, no. 7)  
Office of Technical Services

Dabavariy, Ch. M. and Mikharskaya, L. A.  
INVESTIGATION OF TRANSFORMER OIL STABILITY.  
[1961] Sp.

Order from ATS \$7.25

ATS-86NS4R

Trans. of Khim[ia] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1961, v. 6, no. 4, p. 64-67.

DESCRIPTORS: Transformers, \*Oils, Stability.

(Materials--Lubricants, TT, v. 7, no. 4)

62-12135

I. Dabavariy, Ch. M.  
II. Mikharskaya, L. A.  
III. ATS-86NS4R  
IV. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services

Chernyavskaya, L. F. and Folt, I. F.  
A COMPARISON OF METHODS FOR DETERMINING  
THE CORROSIVENESS OF MOTOR OILS. [1961] 4p.  
Order from ATS \$6.75      ATS-03N56R

Trans. of Khimiya i Tekhnologiya Topliv i Masel  
(USSR) 1961, v. 6, no. 4, p. 70-72

DESCRIPTORS: \*Oils, \*Corrosion.

(Metallurgy--Corrosion, TT, v. 7, no. 4)

62-12123

- I. Chernyavskaya, L. F.
- II. Folt, I. F.
- III. ATS-03N56R
- IV. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

62-16125

Gurevich, I. L. and Zhake, L. Yu.  
TRIETHYLENEGLYCOL AS SELECTIVE SOLVENT  
OF AROMATIC HYDROCARBONS. [1962] 9p. 14 refs.  
Order from OTS or SLA \$1.10 62-16125

I. Gurevich, I. L.  
II. Zhake, L. Yu.

Trans. of Khim[ia] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1961 [v. 6] no. 5, p. 11-14.

DESCRIPTORS: \*Organic solvents, \*Glycols, \*Ethylenes, Hydrocarbons, Benzenes.

Triethyleneglycol was studied as a selective solvent and its convenience for extraction of aromatic hydrocarbons was demonstrated. Efficiency of the multiple stage extraction is shown. It was found, that the graphic methods of Hunter and Nash and of Verteresyan and Flinske for determination of the number of extraction steps give results agreeing with the experiment and can be applied for solution of practical problems connected (Chemistry--Organic, TT, v. 9, no. 4) (over)

Office of Technical Services

Ostrov, L. N., Perast, I. Ya. and others.  
HYDROTREATING DIESEL FUEL DISTILLATE  
WITH HYDROGEN CONTAINING CARBON MONOXIDE  
AND CARBON DIOXIDE IMPURITIES. [1961] 4p.  
Order from ATS \$5.75      ATS-76N56R

Trans. of Khim[ya] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1961, v. 6, no. 5, p. 15-17.

DESCRIPTORS: \*Fuels, Processing, \*Fuel oil, Hydro-  
gen, Carbon compounds, \*Monoxides, \*Carbon dioxide  
Impurities, Diesel engines.

(Materials--Fuels, TT, v. 7, no. 4)

62-12153

- I. Ostrov, L. N.
- II. Perast, I. Ya.
- III. ATS-76N56R
- IV. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services

Bol'shova, T.A. and Starobinets, G.L.  
CHROMATOGRAPHIE DE PARTITION DES PARAF-  
FINES SOLIDES SUR L'URÉE (Raspredelitel'naya  
Khromatografiya Uglevodorodov Tverdykh Neftyanykh  
Parafinov Na Karbamide) (Distribution Chromato-  
graphy of Solid Paraffin Hydrocarbons from Petroleum  
on the Carbamide). 13p. (foreign text included)  
13 refs. CNRS-VI 712.  
Order from OTS, ETC or CNRS \$1.60 TT-62-28721

Trans. in French of Khimiya i Tekhnologiya Topliva i  
Masel (USSR) 1961, v. 6, no. 3, p. 17-21.

Other translations are available in English from OTS,  
SLA or ETC \$1.10 as TT-62-14845 [1962] 6p and  
from ATS \$9.00 as ATS-53N56R [1961] 5p.

DESCRIPTORS: \*Urea, Petroleum, \*Waxes, Chroma-  
tographic analysis.

(Chemistry--Organic, TT, v. 11, no. 9)

TT-62-28721

- I. Bol'shova, T.A.
- II. Starobinets, G.L.
- III. CNRS-VI 712
- IV. Centre National de la Recher-  
che Scientifique, Paris

Office of Technical Services  
European Translations Centre

Dadayan, G. T., Ol'kov, P. L. and others.  
EXPERIMENTAL LOW-TEMPERATURE DEWAXING  
OF OILS USING METHYL ETHYL KETONE. [1961]

7p.

Order from ATS \$8.40

ATS-19N56R

Trans. of Khim[iya] i Tekhnol[ogiya] Topliv i Massl  
(USSR) 1961, v. 6, no. 6, p. 17-21.

DESCRIPTORS: \*Oils, Purification, \*Waxes, Sepa-  
ration, Methyl radicals, Ethyl radicals, Ketones.

(Materials--Lubricants, TT, v. 7, no. 4)

62-12122

- I. Dadayan, G. T.
- II. Ol'kov, P. L.
- III. ATS-19N56R
- IV. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services

Badyshova, K.M.  
PURIFICATION PAR HYDROGÉNATION DES PARAF-  
FINES ISSUES DE PÉTROLES SOUFRES ORIENTAUX  
(Gidrochistka Parafina iz Vostochnykh Sernistykh  
Neftei) (Hydro Refining of Paraffins from Eastern  
(USSR) High-Sulfur Crude Oils). 16p. (foreign text  
included) 2 refs. CNRS-VI 676.  
Order from OTS, ETC or CNRS \$1.60 TT-62-28737

Trans. in French of ~~Khimiya i Tekhnologiya Topliva~~  
(Masel) (USSR) 1961, v. 6, no. 6, p. 21-26.  
Other translations are available in French from OTS,  
ETC or CNRS \$1.10 as TT-62-26458, CNRS-FR 1745,  
8p. and in English from ATS \$9.80 as ATS-20N56R  
[1961] 7p.

DESCRIPTORS: \*Petroleum, \*Waxes, Purification,  
Hydrogenation, Colors, Sulfur.

(Materials--Fuels, TT, v. 11, no. 9)

TT-62-28737

- I. Badyshova, K.M.
- II. CNRS-VI 676
- III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services  
European Translations Centre

Khmel'nitskii, R. A., Zimina, K. I., and Polyakova, A. A.

A MASS-SPECTROMETRIC METHOD FOR THE ANALYSIS OF GASOLINES. [1961] 8p.

Order from ATS \$11.40

ATS-54N56R

Trans. of Khim[iya] i Tekhnologiiya Topliv i Masel (USSR) 1961, v. 6, no. 6, p. 55-60.

DESCRIPTORS: \*Gasoline, Spectrographic analysis, \*Mass spectrometers, Chemical analysis.

(Chemistry--Analytical, TT, v. 7, no. 5)

62-12146

I. Khmel'nitskii, R. A.

II. Zimina, K. I.

III. Polyakova, A. A.

IV. ATS-54N56R

V. Associated Technical Services, Inc.,  
East Orange, N. J.

ATC 1.1 2483

Office of Technical Services

Korol, A. N. and Turkel'taub, N. M.  
SELECTION OF SOLVENT FOR GAS CHROMATOGRAPHY. [1961] 8p.  
Order from ATS \$13.60

ATS-98N56R

Trans. of Khim[ia] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1961, v. 6, no. 6, p. 61-66.

DESCRIPTORS: \*Gas chromatography.

(Chemistry--Physical, TT, v. 7, no. 4)

62-12217

62-16124

- I. Korol, A. N.
- II. Turkel'taub, N. M.
- III. ATS-98N56R
- IV. Associated Technical  
Services, Inc., East  
Orange, N. J.

ATS 98-4051

Office of Technical Services

A High-Vacuum, High-Temperature, Solid  
Lubricant, by L. N. Sentyurikhina,  
B. N. Malyshev, et al, 6 pp.

RUSSIAN, per, Khim i Tekh Toplivo i Masel;  
No 7, 1961, pp 13-15. 9671658

FTD-TT-61-58

Sci. - Fuels

176, 112

14 Dec 61.

Mel'nikov, B. G.  
CONCENTRATION EQUATION OF MULTISTAGE  
COUNTERCURRENT INTERPHASE TRANSFER. [1961]

9p.  
Order from ATS \$9.95

ATS-17N57R

Trans. of Khimiiya i Tekhnologiiya Topliv i Masel  
(USSR) 1961, v. 6, no. 7, p. 16-21.

DESCRIPTORS: Equations, \*Mass transfer.

(Chemistry-Physical, TT, v. 8, no. 1)

62-12539

- I. Mel'nikov, B. G.
- II. ATS-17N57R
- III. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

THERMOGRAPHIC INVESTIGATION OF ANTI-ABRASIVE OIL  
ADDITIVES, BY I. E. VINOGRADOVA, YE. A. ALEKSEYEVA,  
11 PP.

RUSSIAN, PER, KHIM I TEKH TOPLIV MASEL, NO 7, 1967,  
PP 56-61. 9678220

FTD-TT-62-889

SCI - CHEM  
12 OCT 62

212,764

Analysis of Light Hydrocarbons With the Aid of  
Molecular Sieve, by M. S. Vigdergauz, et al.

RUSSIAN, per, Khimiya i Tekh Topliva i Masel, No 7,  
1961, pp 62, 63.

MLL N. 3625

Sci - Chem

Aug 52

201,181

Lipshtein, R. A., Ivanov, K. I., and  
Mikhel'son, A. Ya.  
EVALUATION OF TRANSFORMER OIL SERVICE  
PROPERTIES. [1961] 9p.  
Order from ATS \$12.85                      ATS-79N56R

Trans. of Khim[ia] i Tekhnol[ogiya] Topliv i Masel  
(USSR) 1961, v. 6, no. 7, p. 63-70.

DESCRIPTORS: \*Transformers, \*Lubricants, Oils.

(Materials--Lubricants, TT, v. 7, no. 9)

62-12652

- I. Lipshtein, R. A.
- II. Ivanov, K. I.
- III. Mikhel'son, A. Ya.
- IV. ATS-79N56R
- V. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services